

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-p38alpha MAP Kinase Monoclonal Antibody

### **ORDERING INFORMATION**

**Catalog No.:** 56450 (clone 9F12))

**Size:** 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

### **BACKGROUND**

The MAPKs (Mitogen-Activated Protein Kinases) are protein-serine/threonine kinases which signal transduction pathways that control intracellular events including acute responses to hormones and major developmental changes in organisms. Upon activation, p38 $\alpha$  MAPK translocates into the nucleus where it phosphorylates one or more nuclear substrates, effecting transcriptional changes and other cellular processes involved in cell growth, division, differentiation, inflammation, and death. p38 $\alpha$  MAPK is activated by chemical stress inducers including hydrogen peroxide, heavy metals, anisomycin, sodium salicylate, lipopolysaccharide, and biological stress signals such as tumor necrosis factor, interleukin-1, ionizing and UV irradiation, hyperosmotic stress and chemotherapeutic drugs.

### **SPECIFICATION SUMMARY**

**Antigen:** Recombinant human p38 $\alpha$  MAPK expressed in *E. coli*.

**Host Species:** Mouse

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

**Other additives:** 50% glycerol

### **SPECIFICITY**

This antibody recognizes human p38 $\alpha$  MAPK.

### **APPLICATIONS**

*Immunoblotting:* use at 1ug/ml. A band of ~38 kDa is detected.

These are recommended concentrations. User should determine optimal concentrations for their application.

*Positive control:* Purified p38 $\alpha$  MAPK.

### **DILUTION INSTRUCTIONS**

Dilute in PBS or medium which is identical to that used in the assay system.

### **STORAGE AND STABILITY**

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*